



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 9550

SERIAL NUMBER 10/712,945	FILING DATE 11/13/2003  RULE	CLASS 257	GROUP ART UNIT 2811	ATTORNEY DOCKET NO. 20059/PIA30962
-----------------------------	---------------------------------------	--------------	------------------------	---------------------------------------

## APPLICANTS

Jae Suk Lee, Seoul, KOREA, REPUBLIC OF;

\*\* CONTINUING DATA \*\*\*\*\*  
*None* *A.O.A.*

\*\* FOREIGN APPLICATIONS \*\*\*\*\*  
REPUBLIC OF KOREA 10-2002-0086218 12/30/2002  
*A.O.A.*

IF REQUIRED, FOREIGN FILING LICENSE GRANTED  
\*\* 02/12/2004

Foreign Priority claimed ☒ yes ☐ no  
35 USC 119 (a-d) conditions met ☐ yes ☒ no ☐ Met after Allowance  
Verified and Acknowledged *am* *O. ar* *A.O.A.*  
Examiner's Signature Initials

STATE OR  
COUNTRY  
KOREA,  
REPUBLIC OF

SHEETS  
DRAWING  
4

TOTAL  
CLAIMS  
20

INDEPENDENT  
CLAIMS  
2

## ADDRESS

34431  
HANLEY, FLIGHT & ZIMMERMAN, LLC  
20 N. WACKER DRIVE  
SUITE 4220  
CHICAGO, IL  
60606

## TITLE

Metal line structures in semiconductor devices and methods of forming the same

FILING FEE  RECEIVED 770	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees ( Filing ) <input type="checkbox"/> 1.17 Fees ( Processing Ext. of time ) <input type="checkbox"/> 1.18 Fees ( Issue ) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
-----------------------------------	---	---